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1. **Towards rich information landscapes for visualising structured Web spaces**
Andrews, K.; Pichler, M.; Wolf, P.;
Information Visualization '96, Proceedings IEEE Symposium on
28-29 Oct. 1996 Page(s):62 - 63, 121
Digital Object Identifier 10.1109/INFVIS.1996.559218
AbstractPlus | Full Text: PDF(788 KB) IEEE CNF

2. **A new approach for multilingual address recognition**
Aoki, Y.; Akagi, T.; Nakao, A.; Natori, N.; Mizutani, H.;
Document Analysis and Recognition, 1999. ICDAR '99. Proceedings of the Fifth International Confe
20-22 Sept. 1999 Page(s):313 - 316
Digital Object Identifier 10.1109/ICDAR.1999.791787
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1 A semantic network-based design methodology for XML documents

Ling Feng, Elizabeth Chang, Tharam Dillon

October 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 4

Full text available: pdf(285.64 KB) Additional Information: full citation, abstract, references, citings, index terms

The eXtensible Markup Language (XML) is fast emerging as the dominant standard for describing and interchanging data among various systems and databases on the Internet. It offers the Document Type Definition (DTD) as a formalism for defining the syntax and structure of XML documents. The XML Schema definition language, as a replacement for the DTD, provides more rich facilities for defining and constraining the content of XML documents. However, it does not concentrate on the semantics that und ...

Keywords: XML, XML Schema, conceptual modeling, design methodology, semantic network

2 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 Proximal nodes: a model to query document databases by content and structure

Gonzalo Navarro, Ricardo Baeza-Yates

October 1997 **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4

Full text available: pdf(550.43 KB) Additional Information: full citation, abstract, references, citings, index terms, review

A model to query document databases by both their content and structure is presented. The

goal is to obtain a query language that is expressive in practice while being efficiently implementable, features not present at the same time in previous work. The key ideas of the model are a set-oriented query language based on operations on nearby structure elements of one or more hierarchies, together with content and structural indexing and bottom-up evaluation. The model is evaluated in regard t ...

Keywords: expressivity and efficiency of query languages, hierarchical documents, structured text, text algebras

4 Special issue: AI in engineering

D. Sriram, R. Joobbani

January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

5 Knowledge management session 4: indexing: Bootstrapping for hierarchical document classification

Giordano Adami, Paolo Avesani, Diego Sona

November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**

Full text available: pdf(180.73 KB) Additional Information: full citation, abstract, references, index terms

Managing the hierarchical organization of data is starting to play a key role in the knowledge management community due to the great amount of human resources needed to create and maintain these organized repositories of information. Machine learning community has in part addressed this problem by developing hierarchical supervised classifiers that help maintainers to categorize new resources within given hierarchies. Although such learning models succeed in exploiting relational knowledge, they ...

Keywords: TaxSOM, constrained clustering, k-means, taxonomy bootstrapping process, text categorization

6 Multimedia data indexing: Looking at mapping, indexing & querying of MPEG-7 descriptors in RDBMS with SM3

Yang Chu, Liang-Tien Chia, Sourav S. Bhowmick

November 2004 **Proceedings of the 2nd ACM international workshop on Multimedia databases**

Full text available: pdf(279.92 KB) Additional Information: full citation, abstract, references, index terms

MPEG-7 documents, which are primarily for multimedia information exchange, are also data-centric XML documents. Due to its advantages, the relational DBMS is the best choice for storing such XML documents. Storing XML data in relational DBMS can be classified into two classes of storage model: structure-mapping and model-mapping. However, the structure-mapping model cannot support complex Xpath-based query efficiently and model mapping approach lacks the flexible capability in representing al ...

Keywords: MPEG-7, SM3, relational DBMS, storing XML documents

7 MAPA: a system for inducing and visualizing hierarchy in Websites

David Durand, Paul Kahn
May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**
Full text available: pdf(1.52 MB) Additional Information: full citation, references, citings, index terms

8 Document management: Context representation, transformation and comparison for ad hoc product data exchange
Jingzhi Guo, Chengzheng Sun
November 2003 **Proceedings of the 2003 ACM symposium on Document engineering**
Full text available: pdf(275.65 KB) Additional Information: full citation, abstract, references, index terms

Product data exchange is the precondition of business interoperation between Web-based firms. However, millions of small and medium sized enterprises (SMEs) encode their Web product data in ad hoc formats for electronic product catalogues. This prevents product data exchange between business partners for business interoperation. To solve this problem, this paper has proposed a novel concept-centric catalogue engineering approach for representing, transforming and comparing semantic contexts in a ...

Keywords: XML product map, XPM, ad hoc product data exchange, concept, context comparison, context representation, context transformation, electronic commerce, electronic product catalogue, product data integration, semantics

9 Modeling the storage architectures of commercial database systems
D. S. Batory
December 1985 **ACM Transactions on Database Systems (TODS)**, Volume 10 Issue 4
Full text available: pdf(4.46 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Modeling the storage structures of a DBMS is a prerequisite to understanding and optimizing database performance. Previously, such modeling was very difficult because the fundamental role of conceptual-to-internal mappings in DBMS implementations went unrecognized. In this paper we present a model of physical databases, called the transformation model, that makes conceptual-to-internal mappings explicit. By exposing such mappings, we show that it is possible to model the storage ...

10 XIRQL: An XML query language based on information retrieval concepts
Norbert Fuhr, Kai Großjohann
April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2
Full text available: pdf(281.91 KB) Additional Information: full citation, abstract, references, citings, index terms

XIRQL ("circle") is an XML query language that incorporates imprecision and vagueness for both structural and content-oriented query conditions. The corresponding uncertainty is handled by a consistent probabilistic model. The core features of XIRQL are (1) document ranking based on index term weighting, (2) specificity-oriented search for retrieving the most relevant parts of documents, (3) datatypes with vague predicates for dealing with specific types of content and (4) structural vagueness f ...

Keywords: Path algebra, XML, XQuery, probabilistic retrieval, ranked retrieval, vague predicates

11

An automated approach for retrieving hierarchical data from HTML tables
Seung-Jin Lim, Yiu-Kai Ng
November 1999 **Proceedings of the eighth international conference on Information and knowledge management**

Full text available: pdf(1.74 MB) Additional Information: full citation, abstract, references, citings, index terms

Among the HTML elements, HTML tables [RHJ98] encapsulate hierarchically structured data (hierarchical data in short) in a tabular structure. HTML tables do not come with a rigid schema and almost any forms of two-dimensional tables are acceptable according to the HTML grammar. This relaxation complicates the process of retrieving hierarchical data from HTML tables. In this paper, we propose an automated approach for retrieving hierarchical data from HTML tables. The proposed approach constr ...

12 Special issue on knowledge representation
Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70

Full text available: pdf(13.13 MB) Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

13 Web clustering and usage mining: Clustering documents in a web directory
Giordano Adami, Paolo Avesani, Diego Sona
November 2003 **Proceedings of the 5th ACM international workshop on Web information and data management**

Full text available: pdf(180.53 KB) Additional Information: full citation, abstract, references, index terms

Hierarchical categorization of documents is a task receiving growing interest due to the widespread proliferation of topic hierarchies for text documents. The worst problem of hierarchical supervised classifiers is their high demand in terms of labeled examples, whose amount is related to the number of topics in the taxonomy. Hence, bootstrapping a huge hierarchy with a proper set of labeled examples is a critical issue. In this paper, we propose some solutions for the bootstrapping problem, imp ...

Keywords: TaxSOM, constrained clustering, digital libraries, k-means, knowledge management, taxonomy bootstrapping process, text categorization, web directories

14 Automating XML documents transformations: a conceptual modelling based approach
A. Boukottaya, C. Vanoirbeek, F. Paganelli, O. Abou Khaled
January 2004 **Proceedings of the first Asian-Pacific conference on Conceptual modelling - Volume 31 CRPIT '04**

Full text available: pdf(366.94 KB) Additional Information: full citation, abstract, references

The growing use of XML mark-up language has made a large amount of heterogeneous XML documents widely available. As the number of applications that utilize heterogeneous XML documents grows, the importance of XML documents transformations increases greatly. A serious obstacle for translating directly between two XML documents, using languages like XSLT, is that a mapping between the two XML representations needs to be carefully specified by a human expert. Current research attempts to address th ...

Keywords: Layered Interoperability Model for XML Schemas, automating XML documents

transformations, conceptual modelling, semantic matching

15 Checking the temporal integrity of interactive multimedia documents

I. Mirbel, B. Pernici, T. Sellis, S. Tserkezoglou, M. Vazirgiannis

July 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 2

Full text available: pdf(269.63 KB) Additional Information: full citation, abstract, citings, index terms

When authoring multimedia scenarios, and in particular scenarios with user interaction, where the sequence and time of occurrence of interactions is not predefined, it is difficult to guarantee the consistency of the resulting scenarios. As a consequence, the *execution* of the scenario may result in unexpected behavior or inconsistent use of media. The present paper proposes a methodology for checking the temporal integrity of interactive multimedia document (IMD) scenarios at authoring ti ...

Keywords: Constraint networks, Multimedia presentation, Temporal integrity

16 Petri-net-based hypertext: document structure with browsing semantics

P. David Stotts, Richard Furuta

January 1989 **ACM Transactions on Information Systems (TOIS)**, Volume 7 Issue 1

Full text available: pdf(2.19 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We present a formal definition of the Trellis model of hypertext and describe an authoring and browsing prototype called &agr;Trellis that is based on the model. The Trellis model not only represents the relationships that tie individual pieces of information together into a document (i.e., the adjacencies), but specifies the browsing semantics to be associated with the hypertext as well (i.e., the manner in which the information is to be visited and presented). The model is based on Petri ...

17 XAS: a system for accessing componentized, virtual XML documents

Ming-Ling Lo, Shyh-Kwei Chen, Sriram Padmanabhan, Jen-Yao Chung

July 2001 **Proceedings of the 23rd International Conference on Software Engineering**

Full text available: pdf(143.39 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

XML is emerging as an important format for describing the schema of documents and data to facilitate integration of applications in a variety of industry domains. An important issue that naturally arises is the requirement to generate, store and access XML documents.

It is important to reuse existing data management systems and repositories for this purpose. In this paper, we describe the XML Access Server (XAS), a general purpose XML based storage and retrieval system which ...

18 Model-driven development of Web applications: the AutoWeb system

Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Full text available: pdf(6.94 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in

an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

19 Link aggregation: Untangling compound documents on the web

Nadav Eiron, Kevin S. McCurley

August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**

Full text available: pdf(192.59 KB) Additional Information: full citation, abstract, references, citings, index terms

Most text analysis is designed to deal with the concept of a "document", namely a cohesive presentation of thought on a unifying subject. By contrast, individual nodes on the World Wide Web tend to have a much smaller granularity than text documents. We claim that the notions of "document" and "web node" are not synonymous, and that authors often tend to deploy documents as collections of URLs, which we call "compound documents". In this paper we present new techniques for identifying and workin ...

Keywords: composites, hypertext, information retrieval, semantic web, wasted space

20 PEN: A hierarchical document editor

Todd Allen, Robert Nix, Alan Perlis

June 1981 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN SIGOA symposium on Text manipulation**, Volume 16 Issue 6

Full text available: pdf(834.17 KB) Additional Information: full citation, abstract, references, citings, index terms

Three terms in common usage in computerized text processing are text-editing, word-processing, and computer controlled typesetting. This paper deals with a fourth term, manuscript preparation, that has important intersections with the above three. A computerized manuscript preparation system is one that supports an author in the preparation of a manuscript. In what follows we deal with one such, the PEN sys ...

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